

DISCUSSION WORKSHEET

Period 65: STRUCTURE OF VIRUS

Task 1. Watch the video carefully. Then, drag and drop the information boxes labeled A, B, C, D, and E to the corresponding steps in the replication cycle of bacteriophage T4 in an *E. coli* host cell.

1.
Attachment

2.
Penetration

3.
Biosynthesis

4. Assembly

5. Release

A. The virus uses the host cell's materials and enzymes to make its own proteins and nucleic

B. Viral components combine to form the nucleocapsid structure

C. Non-enveloped viruses release their genetic material directly into the host cell, while enveloped viruses enter the cell first and then uncoat.

D. A virus attaches to the host cell surface by binding to specific receptors.

E. Viruses can destroy the host cell to release all new virions at once, or they can exit the cell gradually. Enveloped viruses acquire their envelope from the host cell membrane, into which viral proteins are inserted